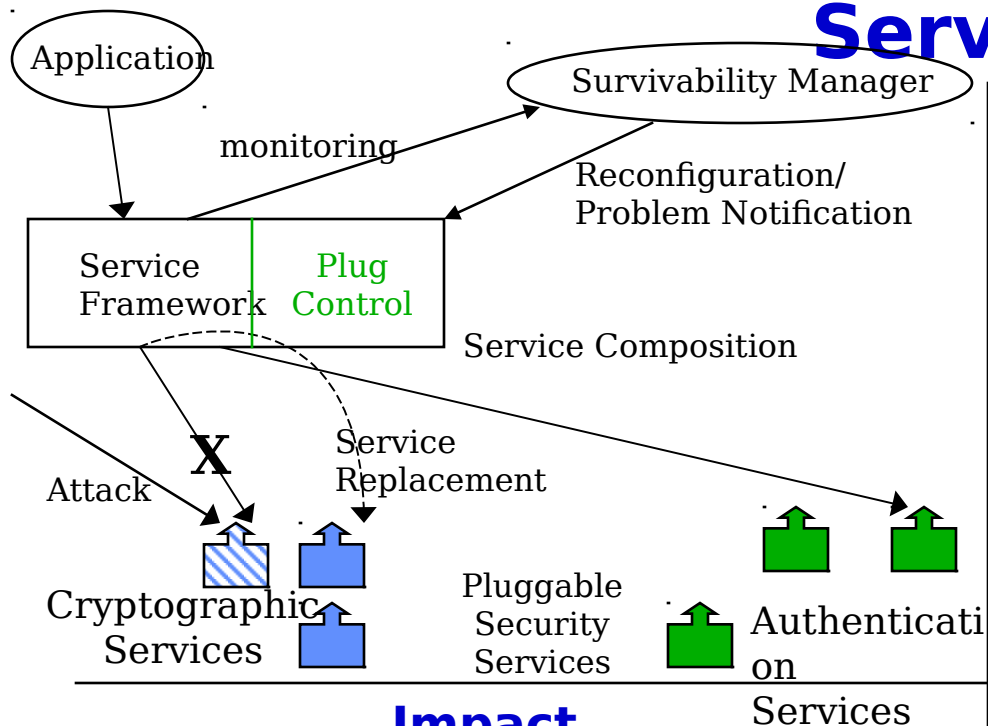


Composable Replaceable Security Services



Impact

- Provide a new paradigm for configuring and reconfiguring complex heterogeneous systems with changing components, requirements and threats.

- Provide an architecture where transparent recovery can occur after a service provider failure without any loss of data or security.

- Provide a full-fledged survivability service that can monitor survivability posture and warn system administrators when observed behavior deviates from specified survivability objectives and take corrective action such as reconfiguration to restore survivability posture.

New Ideas

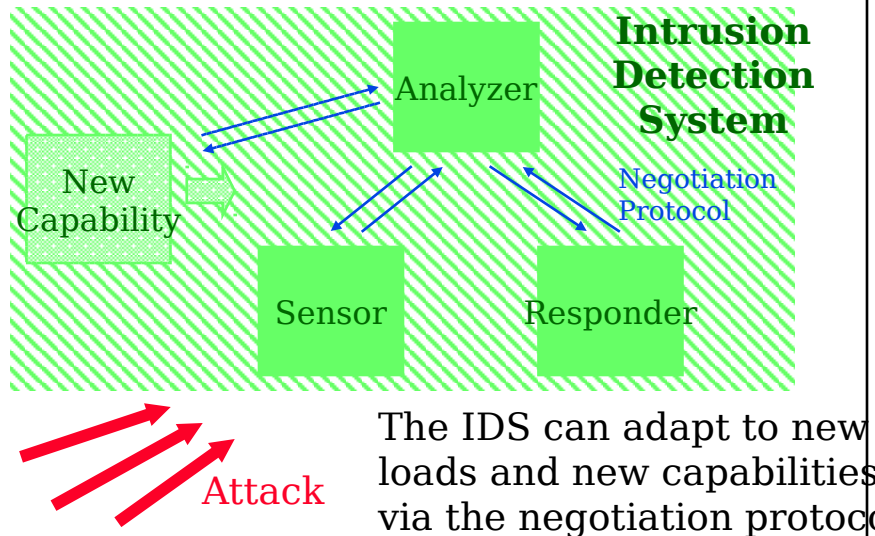
- The security requirements of real world applications can be met through the composition of replaceable, portable, transportable and mobile security services.
- Security implemented through composable and replaceable security services can be reconfigured in response to threats or changes in security requirements.
- Provide a metrics-based approach to survivability monitoring, management and analysis of both systems and individual service providers.

Schedule

TASK	1998			1999			2000		
	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3
Write architecture report									
Develop Secure CRSS Mail									
Demonstrate Survivability Manager									
Final Demonstration									

NAI Labs, Network Associates: Richard Feiertag, Tim Redmond

INTRUSION DETECTION INTERCOMPONENT ADAPTIVE NEGOTIATION (IDIAN)



New Ideas

- Protocol permits negotiation of a large number of complex alternatives rather than a small number of simple alternatives negotiated in existing protocols.
- Filter expressions are used to define negotiation alternatives and to guarantee that negotiations converge to a successful conclusion, if possible.
- The relative cost of alternatives is an explicit element of the negotiation.

Impact

- Enables more effective intrusion detection systems by simplifying the efficient interoperation of diverse ID components.
- Permits ID systems to rapidly adapt to changing conditions by optimizing both their functional capabilities and their resource allocation.
- Permits dynamic addition and removal of capabilities to ID systems, thereby permitting continuous operation.

Schedule

TASK	1998			1999			2000		
	Q1	Q2	Q3	Q1	Q2	Q3	Q1	Q2	Q3
Demo Requirements Report									
Initial Negotiation Protocol Design									
Initial Implementation									
Final Implementation									
Final Negotiation Protocol Spec.									